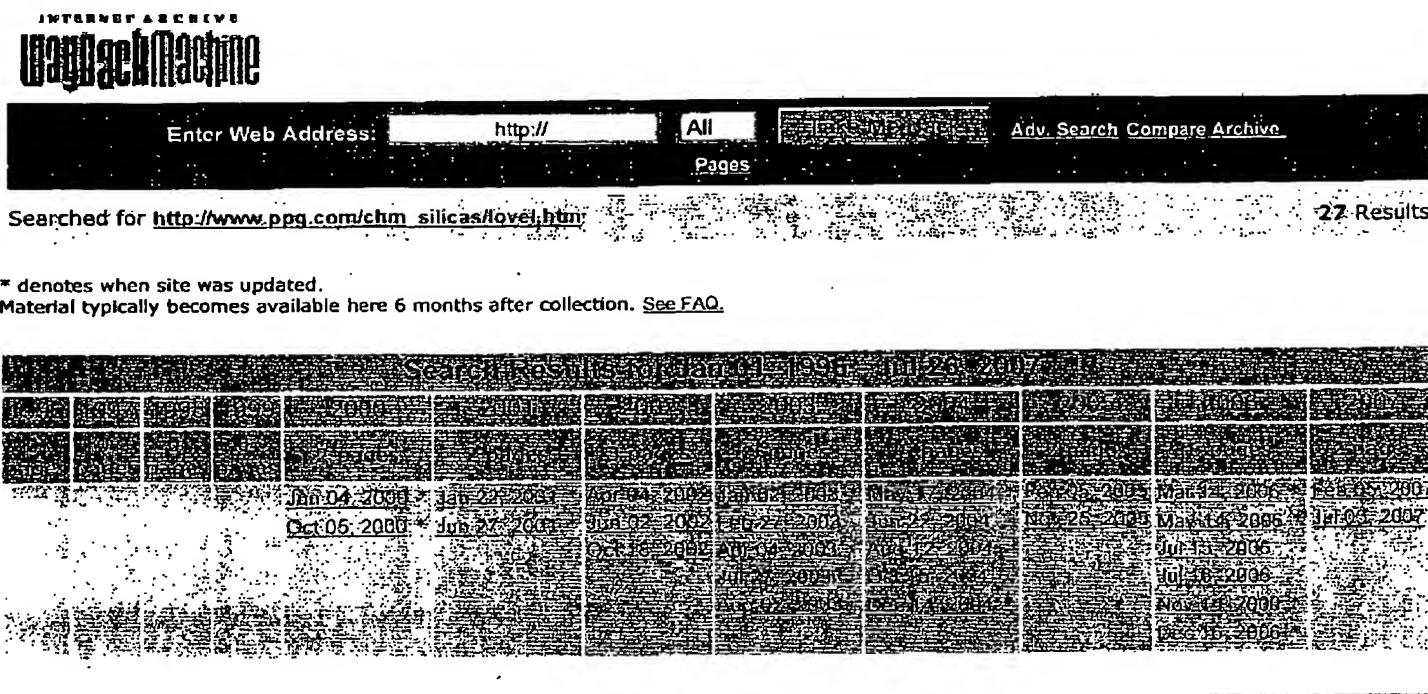


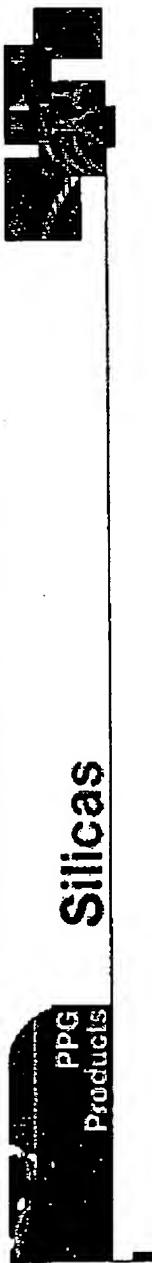
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Silicas

Lo-Vel® Flatting Silicas, Hi-Sil® Thixotropic Silicas, Inhibisil™ Non-toxic Anti-corrosion Pigment

PPG Industries offers a wide variety of specialty precipitated silicas designed for use in coatings, adhesives, sealants, plastics, inks and resins. Lo-Vel® synthetic precipitated silicas are designed as stir-in flattening agents used to reduce the gloss of a variety of industrial, automotive and specialty coatings finishes. They offer high flattening efficiency, low oil adsorption, excellent dispersibility and yield high clarity in films. Inhibisil™ pigment is developed for use as a non-toxic corrosion inhibiting pigment for paint and coatings systems in contact with metal. Hi-Sil® T-600 and T-700 are synthetic precipitated silica thixotropes used in a variety of coatings, resins, sealants and adhesive systems as rheology modifiers and anti-sag/suspension aids. Your application may demand properties our current silica products do not address. PPG will seek to accommodate your need for a specially designed silica through the resources and support of PPG coating specialists. For technical assistance call PPG at 1-800-243-6745 or fax 1-412-434-2520.

PPG is dedicated to a Total Quality philosophy of doing business. This commitment throughout our organization means doing a job right the first time and continually improving the way we provide goods and services to our customers throughout the world.

PPG precipitated silicas are manufactured in the following locations:

- Lake Charles, Louisiana, USA
- Barberton, Ohio, USA
- Delfzijl, the Netherlands
- Nanchang, People's Republic of China
- Lianyungang, People's Republic of China
- Rayong, Thailand
- Sanyi, Taiwan

Statements and methods presented in this publication are based upon the best available information and practices known to PPG Industries at present, but are not representations or warranties of performance, result or comprehensiveness, nor do they imply any recommendations to infringe any patent or an offer of license under any patent.

All health and safety information contained herein should be passed on to your customers or employees, as appropriate. PPG Industries also advocates that anyone using or handling these products thoroughly read and understand all information and precautions on product labels, as well as in other product safety publications such as Material Safety Data Sheets.

PPG Silicas for Coatings Applications

Grades and Typical Characteristics of PPG Designed Silicas

Tapped Bulk

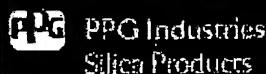
Silica Grade	Median Size Micrometers	Density lb/cu ft	Performance Characteristics/Uses
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Lo-Vel? 27	2	3	Easy dispersing, low cost flattening silica for 5.4 Hegman thin film coatings such as lacquers
Lo-Vel? 66	2	4	Wax-treated for easy resuspension and mar resistance in thin film wood coatings and clear industrial finishes
Lo-Vel? 275	4	5	General Purpose easy dispersing flattening silica for 6 Hegman clear and pigmented coalings
Lo-Vel? 326	4	6	Wax-treated for easy resuspension and mar resistance in 6 Hegman industrial, automotive and specialty coatings finishes
Lo-Vel? 28	5	6	High efficiency flattening silica at all viewing angles in coil and general industrial coatings
Lo-Vel? 29	6	6	Outstanding flattening efficiency at 1:1 gloss/sheen ratio in 5 Hegman coil and general industrial coatings
Lo-Vel? 356	7	7	Easy dispersing, high solids, low VOC flattening silica for coil, appliance and furniture finishes
Lo-Vel? 39A	8	7	Highly efficient, low cost flattening silica for micro-textured coil and general industrial coatings
Lo-Vel? HSF	10	10	Easy dispersing, high solids, low VOC flattening silica with 1:1 gloss/sheen ratio for pigmented coatings
Lo-Vel? 271PC12	27	27	Reduces gloss of variety of industrial powder coatings over wide range of cure time and temperature without affecting viscosity or flow-out
Inhibisil?	8	23	Non-toxic corrosion inhibiting silica pigment for paint and coatings systems in contact with metal coatings, resins, sealants and adhesives
Hi-Sil? T-600	2	3	Thixotropic silica used as a rheology modifier and anti-sag/suspension aid in variety of coatings, resins, sealants and adhesives
Hi-Sil? T-700	2	2	Highly efficient precipitated silica thixotrope designed as a cost effective alternative to fumed

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PPG Industries Lo-Vet? Flatting Silicas, Hi-Sil? Thixotropic Silicas, Inhibits!TM Non-toxic Anti-corrosion Pigment
silica in a variety of coatings, resins, sealants and adhesives

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Lo-Vel? Flatting Silicas, Hi-Sil? Thixotropic Silicas, Inhibisil? Non-toxic Anti-corrosion Pigment

PPG Industries offers a wide variety of specialty precipitated silicas designed for use in coatings, adhesives, sealants, plastics, inks and resins. Lo-Vel? synthetic precipitated silicas are designed as stir-in flattening agents used to reduce the gloss of a variety of industrial, automotive and specialty coatings finishes. They offer high flattening efficiency, low oil adsorption, excellent dispersibility and yield high clarity in films. Inhibisil? pigment is developed for use as a non-toxic corrosion inhibiting pigment for paint and coatings systems in contact with metal. Hi-Sil? T-600 and T-700 are synthetic precipitated silica thixotropes used in a variety of coatings, resins, sealants and adhesive systems as rheology modifiers and anti-sag/suspension aids. Your application may demand properties our current silica products do not address. PPG will seek to accommodate your need for a specially designed silica through the resources and support of PPG coating specialists. For technical assistance call PPG at 1-800-243-6745 or fax 1-724-325-5044.

PPG Silicas for Coatings Applications

Grades and Typical Characteristics of PPG Designed Silicas

	Median Size*	Bulk Density	
	Micrometers	lbs/ft ³	
Thickeners			
Hi-Sil? T-600	2	3	Thickener/thixotrope for solvent based coatings, polyester gel coats, resins, adhesives, caulks, sealants, inks. Less dust.
Hi-Sil? T-650	1.5	3	Thickener/thixotrope for solvent based coatings, polyester gel coats, resins, adhesives, caulks, sealants, inks.
Hi-Sil? T-700	2	3	Higher surface area thickener/thixotrope for solvent based coatings polyester gel coats, adhesives, caulks, sealants, inks, defoamers
Hi-Sil? T-152	1.5	3	Higher oil absorption thickener/thixotrope for solvent based coatings polyester gel coats, adhesives, caulks, sealants, inks, defoamers
Flatting Agents			
Lo-Vel? 27	2	3	Easy dispersing for lacquers & thin films. General purpose for use in solvent and water base coatings. Typical Hegman = 6
Lo-Vel? 2003	3	5	Smooth finish, high efficiency for coil and industrial coatings. Use in solvent and water based coatings. Typical Hegman = 6
Lo-Vel? 275	4	5	High efficiency for industrial finishes and coil coatings; for solvent and water based coatings. Typical Hegman = 6.
Lo-Vel? 2000	5	7	Highest flattening efficiency for coil coatings & industrial finishes. Use in solvent and water based coatings. Typical Hegman = 5?
Lo-Vel? 28	5	6	For coil coatings, leather coatings, industrial finishes, both solvent and water based. Typical Hegman = 5?
Lo-Vel? 29	6	7	High efficiency at all viewing angles for solvent and water based coil and industrial finishes. Typical Hegman = 5.
Lo-Vel? 39A	8	10	For micro-textured finishes, primers, sander-sealer coats. Typical Hegman = 4
Lo-Vel? HSF	10	14	Special for high solids coatings. High efficiency at all viewing angles, less effect on viscosity. Typical Hegman = 5?.

PPG Industries Hi-Sil® Silicas

Lo-Vel® 271 PC	12	27	For powder coatings. Flatting is independent of cure temperature. Low effect on viscosity, resistant to over dispersion
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Wax Treated Flatting Agents

Lo-Vel® 66	2	3	Wax treated, easy dispersing for lacquers & wood coatings for use in solvent and water base coatings. Typical Hegman = 6
Lo-Vel® 2023	3	5	Wax treated. Smooth finish, high efficiency for coil & all industrial coatings. Use in solvent and water. Typical Hegman = 6.
Lo-Vel® 326	4	6	Wax treated for Industrial finishes and coil coating. Smooth films Use in solvent and water base coatings. Typical Hegman = 6
Lo-Vel® 2010	5	7	Wax treated for industrial finishes, coil coating, UV cured coatings, can be used in solvent and water. Typical Hegman =5?

Corrosion Inhibitor

Inhibisil®	8	11	Non-heavy metal, non-toxic, calcium modified silica corrosion inhibitor pigment for solvent and water based coatings.
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* Particle Size measurements via Coulter Multisizer.

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